

```

                                Untitled
Title:      US-10-615-383A-7_COPY_252_1895
Perfect score: 1644
Sequence:   1  gagaat acagt acaagacgt . . . . . act tgcct cct gaaaaaact 1644

```

Untitled

Qy 61 GATCAGTCCAGTAATGAAGAAAAGAATGATGTAATCAATAATAGTCAGTCAATAAACACC 120
 Db 211 GATCAGTCCAGTAATGAAGAAAAGAATGATGTAATCAATAATAGTCAGTCAATAAACACC 270
 Qy 121 GATGATGATAACCAAATAAAAAAGAAGAAACGAATAGCAACGATGCCATAGAAAATCGC 180
 Db 271 GATGATGATAACCAAATAAAAAAGAAGAAACGAATAGCAACGATGCCATAGAAAATCGC 330
 Qy 181 TCTAAAGATATAACACAGTCAACAACAAATGTAGATGAAAAOGAAGCAACATTTTTACAA 240
 Db 331 TCTAAAGATATAACACAGTCAACAACAAATGTAGATGAAAAOGAAGCAACATTTTTACAA 390
 Qy 241 AAGACCCCTCAAGATAATACTCAGCTTAAAGAAGAAGTGGTAAAAGAACCCCTCATCAGTC 300
 Db 391 AAGACCCCTCAAGATAATACTCAGCTTAAAGAAGAAGTGGTAAAAGAACCCCTCATCAGTC 450
 Qy 301 GAATCCTCAAATTCATCAATGGATACTGOCACAAACCATCTCATACAACAATAAATAGT 360
 Db 451 GAATCCTCAAATTCATCAATGGATACTGOCACAAACCATCTCATACAACAATAAATAGT 510
 Qy 361 GAAGCATCTATTCAAACAAGTGATAATGAAGAAAATTCCCGGTATCAGATTTTGCTAAC 420
 Db 511 GAAGCATCTATTCAAACAAGTGATAATGAAGAAAATTCCCGGTATCAGATTTTGCTAAC 570
 Qy 421 TCTAAAATAATAGAGAGTAACACTGAATCCAATAAAGAAGAGAATACTATAGAGCAACCT 480
 Db 571 TCTAAAATAATAGAGAGTAACACTGAATCCAATAAAGAAGAGAATACTATAGAGCAACCT 630
 Qy 481 AACAAAGTAAGAGAAGATTCAATAACAAGTCAACCGTCTAGCTATAAAAATATAGATGAA 540
 Db 631 AACAAAGTAAGAGAAGATTCAATAACAAGTCAACCGTCTAGCTATAAAAATATAGATGAA 690
 Qy 541 AAAATTTCAAATCAAGATGAGTTATTAAATTTACCAATAAATGAATATGAAAATAAGGTT 600
 Db 691 AAAATTTCAAATCAAGATGAGTTATTAAATTTACCAATAAATGAATATGAAAATAAGGTT 750
 Qy 601 AGACCGTTATCTACAACATCTGOCACAAACCATGAGTAAGCGTGTAAACCGTAAATCAATTA 660
 Db 751 AGACCGTTATCTACAACATCTGOCACAAACCATGAGTAAGCGTGTAAACCGTAAATCAATTA 810
 Qy 661 GCGGCAGAACAAAGGTTGAATGTTAATCATTTAATTAAAGTTACTGATCAAAGTATTACT 720
 Db 811 GCGGCAGAACAAAGGTTGAATGTTAATCATTTAATTAAAGTTACTGATCAAAGTATTACT 870
 Qy 721 GAAGGATATGATGATAGTGATGGTATTATTAAAGCACATGATGCTGAAAACCTTAATCTAT 780
 Db 871 GAAGGATATGATGATAGTGATGGTATTATTAAAGCACATGATGCTGAAAACCTTAATCTAT 930
 Qy 781 GATGTAACTTTTGAAGTAGATGATAAGGTGAAATCTGGTGATACGATGACAGTGAATATA 840
 Db 931 GATGTAACTTTTGAAGTAGATGATAAGGTGAAATCTGGTGATACGATGACAGTGAATATA 990
 Qy 841 GATAAGAATACAGTTCATCAGATTTAACCGATAGTTTTGCAATACCAAAAAATAAAGAT 900
 Db 991 GATAAGAATACAGTTCATCAGATTTAACCGATAGTTTTGCAATACCAAAAAATAAAGAT 1050
 Qy 901 AATTCTGGAGAAATCATCGCTACAGGTAATTTATGACAACACAAATAAACAAATTACCTAC 960
 Db 1051 AATTCTGGAGAAATCATCGCTACAGGTAATTTATGACAACACAAATAAACAAATTACCTAC 1110
 Qy 961 ACTTTTACAGATTATGTAGATAAATATGAAAATATTAAAGCGCAOCTTAAATTAACATCA 1020
 Db 1111 ACTTTTACAGATTATGTAGATAAATATGAAAATATTAAAGCGCAOCTTAAATTAACATCA 1170

U n t i t l e d

Qy	1021	TACATTGATAAATCAAAGGTTCCAAATAATAAACTAAGTTAGATGTAGAATATAAGACG	1080
Db	1171	TACATTGATAAATCAAAGGTTCCAAATAATAAACTAAGTTAGATGTAGAATATAAGACG	1230
Qy	1081	GOOCTTTTCATCAGTAAATAAAACAATTACGGTTGAATATCAAAAAOCTAACGAAAATCGG	1140
Db	1231	GOOCTTTTCATCAGTAAATAAAACAATTACGGTTGAATATCAAAAAOCTAACGAAAATCGG	1290
Qy	1141	ACTGCTAAOCTTCAAAGTATGTTACAAACATAGATACGAAAAACCATACAGTTGAGCAA	1200
Db	1291	ACTGCTAAOCTTCAAAGTATGTTACAAACATAGATACGAAAAACCATACAGTTGAGCAA	1350
Qy	1201	ACGATTTATATTAAOCTCTTGGTTATTGAGCAAAGAAACAAATGTAAATATTTGAGGG	1260
Db	1351	ACGATTTATATTAAOCTCTTGGTTATTGAGCAAAGAAACAAATGTAAATATTTGAGGG	1410
Qy	1261	AATGGOGATGAAGGTTCAACAATTATOGAOGATAGTACAATCATTAAAGTTTATAAGGTT	1320
Db	1411	AATGGOGATGAAGGTTCAACAATTATOGAOGATAGTACAATCATTAAAGTTTATAAGGTT	1470
Qy	1321	GGAGATAATCAAAATTTACCAGATAGTAACAGAATTTATGATTACAGTGAATATGAAGAT	1380
Db	1471	GGAGATAATCAAAATTTACCAGATAGTAACAGAATTTATGATTACAGTGAATATGAAGAT	1530
Qy	1381	GTCACAAATGATGATTATGOCCAATTAGGAAATAATAATGACGTGAATATTAATTTTGGT	1440
Db	1531	GTCACAAATGATGATTATGOCCAATTAGGAAATAATAATGACGTGAATATTAATTTTGGT	1590
Qy	1441	AATATAGATTCAOCATATATTATTAAAGTTATTAGTAAATATGAOCTAATAAGGACGAT	1500
Db	1591	AATATAGATTCAOCATATATTATTAAAGTTATTAGTAAATATGAOCTAATAAGGACGAT	1650
Qy	1501	TACACGACGATACAGCAAACGTGACAATGCAAAOAGCTATAAATGAGTATACTGGTGAG	1560
Db	1651	TACACGACGATACAGCAAACGTGACAATGCAAAOAGCTATAAATGAGTATACTGGTGAG	1710
Qy	1561	TTTAGAACAGCATOCTATGATAATACAATTGCTTTCTCTACAAGTTGAGTCAAGGACAA	1620
Db	1711	TTTAGAACAGCATOCTATGATAATACAATTGCTTTCTCTACAAGTTGAGTCAAGGACAA	1770
Qy	1621	GGTGACTTGOCTOCTGAAAAAACT	1644
Db	1771	GGTGACTTGOCTOCTGAAAAAACT	1794

Title: US- 10- 615- 383A- 7
 Perfect score: 2976
 Sequence: 1 at at t gcaaaaaagact t at ccaacaaat at aaggt gt t g 2976

RESULT 4

US- 09- 134- 001C- 2477

; Sequence 2477, Appli cation US/ 09134001C

; Patent No. 6380370

; GENERAL I NFORMATI ON:

; APPLI CANT: Lynn Doucette- Stamm et al

; TITL E OF I NVENTI ON: NUCLEI C ACI D AND AM NO ACI D SEQUENCES RELATI NG TO

STAPHYLOCOCCUS

; TITL E OF I NVENTI ON: EPI DERM DI S FOR DI AGNOSTI CS AND THERAPEUTI CS

; FILE REFERENCE: GTC- 007

; CURRENT APPLI CATI ON NUMBER: US/ 09/ 134, 001C

; CURRENT FI LI NG DATE: 1998- 08- 13

; PRI OR APPLI CATI ON NUMBER: US 60/ 064, 964

Untitled

; PRI OR FI LI NG DATE: 1997-11-08
 ; PRI OR APPLI CATI ON NUMBER: US 60/055,779
 ; PRI OR FI LI NG DATE: 1997-08-14
 ; NUMBER OF SEQ I D NOS: 5674
 ; SEQ I D NO 2477
 ; LENGTH: 2793
 ; TYPE: DNA
 ; ORGANI SM St aphyl ococcus epi der mi di s
 US-09-134-001G-2477

Query Match 93.8% Score 2791.4; DB 3; Length 2793;
 Best Local Similarity 99.9%
 Matches 2792; Conservative 0; M smat ches 1; Indel s 0; Gaps 0;

Qy	102	TTAAAAAAAAATAATTTACTAACTAAAAAGAAAOCTATAGCAAATAAATCCAATAAATAT	161
Db	1	TTAAAAAAAAATAATTTACTAACTAAAAAGAAAOCTATAGCAAATAAATCCAATAAATAT	60
Qy	162	GCAATTAGAAAATTCACAGTAGGTACAGOGTCTATTGTAATAGGTGCAGCATTATTGTTT	221
Db	61	GCAATTAGAAAATTCACAGTAGGTACAGOGTCTATTGTAATAGGTGCAACATTATTGTTT	120
Qy	222	GGTTTAGGTCAATAATGAGGCCAAAGCTGAGGAGAATACAGTACAAGACGTTAAAGATTG	281
Db	121	GGTTTAGGTCAATAATGAGGCCAAAGCTGAGGAGAATACAGTACAAGACGTTAAAGATTG	180
Qy	282	AATATGGATGATGAATTATCAGATAGCAATGATCAGTCCAGTAATGAAGAAAAGAATGAT	341
Db	181	AATATGGATGATGAATTATCAGATAGCAATGATCAGTCCAGTAATGAAGAAAAGAATGAT	240
Qy	342	GTAATCAATAATAGTCAGTCAATAAACACCGATGATGATAACCAAATAAAAAAGAAGAA	401
Db	241	GTAATCAATAATAGTCAGTCAATAAACACCGATGATGATAACCAAATAAAAAAGAAGAA	300
Qy	402	ACGAATAGCAACGATGCCATAGAAAATCGCTCTAAAGATATAACACAGTCAACAACAAAT	461
Db	301	ACGAATAGCAACGATGCCATAGAAAATCGCTCTAAAGATATAACACAGTCAACAACAAAT	360
Qy	462	GTAGATGAAAACGAAGCAACATTTTTACAAAAGACCCCTCAAGATAATACTCAGCTTAAA	521
Db	361	GTAGATGAAAACGAAGCAACATTTTTACAAAAGACCCCTCAAGATAATACTCAGCTTAAA	420
Qy	522	GAAGAAGTGGTAAAAGAACCCCTCATCAGTCGAATCCTCAAATTCATCAATGGATACTGCC	581
Db	421	GAAGAAGTGGTAAAAGAACCCCTCATCAGTCGAATCCTCAAATTCATCAATGGATACTGCC	480
Qy	582	CAACAACCATCTCATACAACAATAAATAGTGAAGCATCTATTCAAACAAGTGATAATGAA	641
Db	481	CAACAACCATCTCATACAACAATAAATAGTGAAGCATCTATTCAAACAAGTGATAATGAA	540
Qy	642	GAAAATTCCCGGTATCAGATTTTGCTAACTCTAAAATAATAGAGAGTAACACTGAATCC	701
Db	541	GAAAATTCCCGGTATCAGATTTTGCTAACTCTAAAATAATAGAGAGTAACACTGAATCC	600
Qy	702	AATAAAGAAGAGAATACTATAGAGCAACCTAACAAAGTAAGAGAAGATTCAATAACAAGT	761
Db	601	AATAAAGAAGAGAATACTATAGAGCAACCTAACAAAGTAAGAGAAGATTCAATAACAAGT	660
Qy	762	CAACOGTCTAGCTATAAAAAATATAGATGAAAAAATTTCAAATCAAGATGAGTTATTAAAT	821
Db	661	CAACOGTCTAGCTATAAAAAATATAGATGAAAAAATTTCAAATCAAGATGAGTTATTAAAT	720
Qy	822	TTACCAATAAATGAATATGAAAATAAGGTTAGACGGTTATCTACAACATCTGCCAACCA	881

Untitled

Db	721	TTACCAATAAATGAATATGAAAATAAGGTTAGACCGTTATCTACAACATCTGCCAACCA	780
Qy	882	TCGAGTAAGCGTGTAAACCGTAAATCAATTAGCGGCAGAACAAGGTTGAATGTTAATCAT	941
Db	781	TCGAGTAAGCGTGTAAACCGTAAATCAATTAGCGGCAGAACAAGGTTGAATGTTAATCAT	840
Qy	942	TTAATTAAGTTACTGATCAAAGTATTACTGAAGGATATGATGATAGTGATGGTATTATT	1001
Db	841	TTAATTAAGTTACTGATCAAAGTATTACTGAAGGATATGATGATAGTGATGGTATTATT	900
Qy	1002	AAAGCACATGATGCTGAAAACCTTAATCTATGATGTAACCTTTGAAGTAGATGATAAGGTG	1061
Db	901	AAAGCACATGATGCTGAAAACCTTAATCTATGATGTAACCTTTGAAGTAGATGATAAGGTG	960
Qy	1062	AAATCTGGTGATACGATGACAGTGAATATAGATAAGAATACAGTTCATCAGATTTAAOC	1121
Db	961	AAATCTGGTGATACGATGACAGTGAATATAGATAAGAATACAGTTCATCAGATTTAAOC	1020
Qy	1122	GATAGTTTTGCAATACCAAAAAATAAAGATAATTCTGGAGAAATCATCGCTACAGGTA	1181
Db	1021	GATAGTTTTGCAATACCAAAAAATAAAGATAATTCTGGAGAAATCATCGCTACAGGTA	1080
Qy	1182	TATGACAACACAAATAAACAAATTACCTACACTTTTACAGATTATGTAGATAAATATGAA	1241
Db	1081	TATGACAACACAAATAAACAAATTACCTACACTTTTACAGATTATGTAGATAAATATGAA	1140
Qy	1242	AATATTAAGGCGACCTTAAATTAACATCATACATTGATAAATCAAAGGTTCCAAATAAT	1301
Db	1141	AATATTAAGGCGACCTTAAATTAACATCATACATTGATAAATCAAAGGTTCCAAATAAT	1200
Qy	1302	AACACTAAGTTAGATGTAGAATATAAGACGGGCTTTTCATCAGTAAATAAAACAATTACG	1361
Db	1201	AACACTAAGTTAGATGTAGAATATAAGACGGGCTTTTCATCAGTAAATAAAACAATTACG	1260
Qy	1362	GTTGAATATCAAAAACTAACGAAAAATCGGACTGCTAACCTTCAAAGTATGTTACAAAC	1421
Db	1261	GTTGAATATCAAAAACTAACGAAAAATCGGACTGCTAACCTTCAAAGTATGTTACAAAC	1320
Qy	1422	ATAGATACGAAAAACCATACAGTTGAGCAAAAGATTTATATTAAOCTCTTCGTTATTCA	1481
Db	1321	ATAGATACGAAAAACCATACAGTTGAGCAAAAGATTTATATTAAOCTCTTCGTTATTCA	1380
Qy	1482	GCCAAAGAAACAAATGTAATATTTAGGGAATGGCGATGAAGGTTCAACAATTATCGAC	1541
Db	1381	GCCAAAGAAACAAATGTAATATTTAGGGAATGGCGATGAAGGTTCAACAATTATCGAC	1440
Qy	1542	GATAGTACAATCATTAAAGTTTATAAGGTTGGAGATAATCAAAATTTACCAGATAGTAAC	1601
Db	1441	GATAGTACAATCATTAAAGTTTATAAGGTTGGAGATAATCAAAATTTACCAGATAGTAAC	1500
Qy	1602	AGAATTTATGATTACAGTGAATATGAAGATGTCACAAATGATGATTATGCCAATTAGGA	1661
Db	1501	AGAATTTATGATTACAGTGAATATGAAGATGTCACAAATGATGATTATGCCAATTAGGA	1560
Qy	1662	AATAATAATGACGTGAATATTAATTTTGGTAATATAGATTCAOCATATATTATTAAGTT	1721
Db	1561	AATAATAATGACGTGAATATTAATTTTGGTAATATAGATTCAOCATATATTATTAAGTT	1620
Qy	1722	ATTAGTAAATATGACCTAATAAGGACGATTACACGACGATACAGCAAACCTGTGACAATG	1781
Db	1621	ATTAGTAAATATGACCTAATAAGGACGATTACACGACGATACAGCAAACCTGTGACAATG	1680

Untitled

Qy	1782	CAAACGACTATAAATGAGTATACTGGTGAGTTT	AGAACAGCATCCTATGATAATACAATT	1841
Db	1681	CAAACGACTATAAATGAGTATACTGGTGAGTTT	AGAACAGCATCCTATGATAATACAATT	1740
Qy	1842	GCTTTCTCTACAAGTT	CAGGTCAAGGACAAGGTGACTTGCCTCCTGAAAAA	1901
Db	1741	GCTTTCTCTACAAGTT	CAGGTCAAGGACAAGGTGACTTGCCTCCTGAAAAA	1800
Qy	1902	ATCGGAGATTACGTATGGGAAGATGTAGATAAAGATGGTATTCAAAATACAAATGATAAT		1961
Db	1801	ATCGGAGATTACGTATGGGAAGATGTAGATAAAGATGGTATTCAAAATACAAATGATAAT		1860
Qy	1962	GAAAAACCGCTTAGTAATGTATTGGTAACTTTGA	CGTATCCTGATGGAACCTTCAAAATCA	2021
Db	1861	GAAAAACCGCTTAGTAATGTATTGGTAACTTTGA	CGTATCCTGATGGAACCTTCAAAATCA	1920
Qy	2022	GTCAGAACAGATGAAGAGGGGAAATATCAATTTGATGGGTAAAAAACGGATTGACTTAT		2081
Db	1921	GTCAGAACAGATGAAGAGGGGAAATATCAATTTGATGGGTAAAAAACGGATTGACTTAT		1980
Qy	2082	AAAATTACATTGAAACACOGGAAGGATATACGCOGACGCTTAAACATT	CAGGAACAAAT	2141
Db	1981	AAAATTACATTGAAACACOGGAAGGATATACGCOGACGCTTAAACATT	CAGGAACAAAT	2040
Qy	2142	CCTGCACTAGACTCAGAAGGCAATTCTGTATGGGTAACTATTAA	CGGACAAGACGATATG	2201
Db	2041	CCTGCACTAGACTCAGAAGGCAATTCTGTATGGGTAACTATTAA	CGGACAAGACGATATG	2100
Qy	2202	ACTATTGATAGCGGATTTTATCAAACACCTAAATATAGCTTAGGGA	ACTATGTATGGTAT	2261
Db	2101	ACTATTGATAGCGGATTTTATCAAACACCTAAATATAGCTTAGGGA	ACTATGTATGGTAT	2160
Qy	2262	GACACTAATAAAGATGGTATTCAAGGTGATGATGAAAAAGGAATCTCTGGAGTAAAAGTG		2321
Db	2161	GACACTAATAAAGATGGTATTCAAGGTGATGATGAAAAAGGAATCTCTGGAGTAAAAGTG		2220
Qy	2322	ACGTTAAAAGATGAAAAACGGAAATATCATTAGTACAACAACA	ACTGATGAAAATGGAAAG	2381
Db	2221	ACGTTAAAAGATGAAAAACGGAAATATCATTAGTACAACAACA	ACTGATGAAAATGGAAAG	2280
Qy	2382	TATCAATTTGATAATTTAAATAGTGGTAATTATATTGTTCA	TTTTGATAAACCTTCAGGT	2441
Db	2281	TATCAATTTGATAATTTAAATAGTGGTAATTATATTGTTCA	TTTTGATAAACCTTCAGGT	2340
Qy	2442	ATGACTCAAACAACAACAGATTCTGGTGATGATGACGAACAGGATGCTGATGGGGAAGAA		2501
Db	2341	ATGACTCAAACAACAACAGATTCTGGTGATGATGACGAACAGGATGCTGATGGGGAAGAA		2400
Qy	2502	GTCOCATGTAAACAATTACTGATCATGATGACTTTAGTATAGATAA	OCGATACTATGATGAC	2561
Db	2401	GTCOCATGTAAACAATTACTGATCATGATGACTTTAGTATAGATAA	OCGATACTATGATGAC	2460
Qy	2562	GACTCAGATT	CAGATAGTGATTGAGACTCAGATAGOGACGACTCAGACTCOGATAGOGAT	2621
Db	2461	GACTCAGATT	CAGATAGTGATTGAGACTCAGATAGOGACGACTCAGACTCOGATAGOGAT	2520
Qy	2622	TCOGACTCAGACAGOGACTCAGATTCOGATAGTGATT	CAGATTGAGACAGTGACTCAGAC	2681
Db	2521	TCOGACTCAGACAGOGACTCAGATTCOGATAGTGATT	CAGATTGAGACAGTGACTCAGAC	2580
Qy	2682	TCAGATAGTGATT	CAGATTGAGACAGOGATTTCOGACTCAGACAGTGACTCAGGATTAGAC	2741
Db	2581	TCAGATAGTGATT	CAGATTGAGACAGOGATTTCOGACTCAGACAGTGACTCAGGATTAGAC	2640

Untitled

Qy 2742 AATAGCTCAGATAAGAATACAAAAGATAAATTACCGGATACAGGAGCTAATGAAGATCAT 2801
 Db 2641 AATAGCTCAGATAAGAATACAAAAGATAAATTACCGGATACAGGAGCTAATGAAGATCAT 2700
 Qy 2802 GATTCTAAAGGCACATTACTTGGAGCTTTATTTGCAGGTTTAGGAGCGTTATTATTAGGG 2861
 Db 2701 GATTCTAAAGGCACATTACTTGGAGCTTTATTTGCAGGTTTAGGAGCGTTATTATTAGGG 2760
 Qy 2862 AAGCGTCGCAAAAATAGAAAAAATAAAAATTAA 2894
 Db 2761 AAGCGTCGCAAAAATAGAAAAAATAAAAATTAA 2793

Title: US- 10- 615- 383A- 10
 Perfect score: 4824
 Sequence: 1 LKKNLLTKKKPI ANKSNKY. FAGLGALLLGKRRKNRKNKN 930

RESULT 3 ABP40469

ID ABP40469 standard; protein; 930 AA.
 XX
 AC ABP40469;
 XX
 DT 24- JUL- 2002 (first entry)
 XX
 DE Staphylococcus epidermidis ORF amino acid sequence SEQ ID NO: 5314.
 XX
 KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;
 KW antibacterial; gene therapy.
 XX
 OS Staphylococcus epidermidis.
 XX
 PN US6380370- B1.
 XX
 PD 30- APR- 2002.
 XX
 PF 13- AUG- 1998; 98US- 00134001.
 XX
 PR 14- AUG- 1997; 97US- 0055779P.
 PR 08- NOV- 1997; 97US- 0064964P.
 XX
 PA (GENO-) GENOME THERAPEUTICS CORP.
 XX
 PI Doucette- Stamm LA, Bush D;
 XX
 DR WPI; 2002- 381255/ 41.
 DR N- PSDB; ABN93014.
 XX
 PT Novel isolated nucleic acid encoding a Staphylococcus epidermis
 PT polypeptide, useful for diagnosing and treating bacterial infections.
 XX
 PS Disclosure; SEQ ID NO 5314; 267pp; English.
 XX
 CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading
 CC frame (ORF) nucleic acid sequences which encode the amino acid sequences
 CC given in ABP35124 to ABP37960. The S. epidermidis sequences have
 CC antibacterial activity and can be used in gene therapy. The sequences can
 CC also be used in the diagnosis and treatment of bacterial infections,
 CC particularly S. epidermidis infections. The sequences can be used to
 CC screen for compounds able to interfere with the S. epidermidis life cycle
 CC or inhibit S. epidermidis infection. N.B. The sequence data for this
 CC patent did not form part of the printed specification, but was obtained

CC in electronic format directly from the USPTO web site

CC in electronic format directly from the USPTO web site

SQ Sequence 930 AA;

Query Match 99.9% Score 4820; DB 1; Length 930;
Best Local Similarity 99.9%
Matches 929; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LKKNLLTKKKPI ANKSNKYAI RKFTVGTASI VI GAALLFGLGHNEAKAEENTVQDVKDS 60

Db 1 L K K N N L L T K K K P I A N K S N K Y A I R K F T V G T A S I V I G A T L L F G L G H N E A K A E E N T V Q D V K D S 60

Qy 61 NMVDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSNDAL ENRSKDI TQSTTN 120

Db 61 NMDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSNDAL ENRSKDI TQSTTN 120

QV 121 VDENEATFLQKTPQDNTQLKEEVVKEPSSVESSNSSMDTAQQPSHTTI NSEASI QTS DNE 180

Db 121 VDENEATFLQKTPQNTQLKEEVVKEPSSVESSNSSMDTACQPSHTTINSEASIQTSDNE 180

Qv 181 ENSRVSDFANSKI | ESNTESNKEENT | EQPNKVREDSI | TSQPSSYKNI | DEKI | SNQDELLN 240

Db 181 ENSRVSDFANSKI | ESNTESNKEENT | EQPNKVREDS | TSQPSSYKN | DEK | SNQDELLN 240

QV 241 LPI NEYENKVRPLSTTSAQPSSKRVTVNQLAAEQGSNVNHLI KVTDCQSI TEGYDDSDGI I 300

Db 241 LP| NEYENKVRPLSTTSACPSSKRVTVNQLAAECGSNVNHL| KVTDOS| TEGYDDSDG| 300

Qv 301 KAHDAENLI YDVTFEVDDKVKSGDTMTVNI DKNTVPSDLTDSFAI PKI KDNSGEI I ATGT 360

Db 301 KAHD AENL YDVT FEVD DKVKSGDTMTVN DKNTVPSDLTDSFAI PK KDNSGE ATGT 360

Qv 361 YDNTNKQI TYTFTDYVDKYENI KAHLKLTSYI DKSKVPNNNTKLDVEYKTALSSVNKTI T 420

Db 361 YDNTNKQ TYFTDYVDKYENI KAHLKLTSY DSKVPNNNTKLDVEYKTALSSVNKT T 420

Qv 421 VEYQKPENRTANLQSMFTNI DTKNHTVEQT I YI NPLRYSAKETNVNI SGNNGDEGST I I D 480

Db 421 VEYQKPENRTANLQSMFTNI DTKNHTVEQTI YI NPLRYSAKETNVNI SGNNGDEGSTI I D 480

Qv 481 DSTI I KVKVGDNCNL PDSNRI YDYSEYEDVTNDDYAQLGNNDVNI NFGNI DSPYI I KV 540

Db 481 DSTI I KVKVGDNQNL PDSNRI YDYSEYEDVTNDDYAQLGNNDVNI NFGNI DSPYI I KV 540

Qv 541 | SKYDPNKDDYTTI| QQTVTMQTTI| NEYTGEFRTASYDNTI| AFSTSSGCGCGDLPPEKTYK 600

Db 541 SKYDPNKDDYTT CQTVMQT NEYTGEFRTASYDNT AFSTSSGCGCGDLPPEKTYK 600

Qv 601 | GDYVWEDVDKDG | QNTNDNEKPLSNVLVTLTPDGTSKSVRTDEEGKYQFDGLKNGLTY 660

Db 601 GDYVWEDVDKDG QNTNDNEKPLSNVLVTLTPDGTSKSVRTDEEGKYQFDGLKNGLTY 660

Qv 661 KI TFETPEGYTPTLKHSGTNPALDSEGN**SVW**TI NGQDDMTI DSGFYQTPKYS**LGN**YVWY 720

Db 661 KI TFETPEGYTPTLKHSGTNPALDSEGNVWWTI NGQDDMTI DSGFYQTPKYSLGNYVWY 720

Qv 721 DTNKDGI QGDDEKGI SGVKVTLKDENGNI I STTTTDENKYOQFDNLNSGNYI VHFDKPSG 780

Db 721 DTNKDGI QGDDEKG SGVKVTLKDENGNI STTTTDENKYOQDNLNSGNY VHFDKPSG 780

Qy 781 MTQT TTD SGGDDDEQDADGEEVHVTI TDHDDFSI DNGYYDDDSDSDSDSDSDDSDSDSD 840

Db 781 MTQTTTDSGDDDEQDADGEEVHVTI TDHDDFSI DNGYYDDDSDSDSDSDSDSDDSDSDSD 840

Untitled

Qy 841 SDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSL DNSSDKNTKDKLPDTGANEDH 900
 Db 841 SDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSDSL DNSSDKNTKDKLPDTGANEDH 900
 Qy 901 DSKGTLLGALFAGLGALLLGKRRKNRKNKN 930
 Db 901 DSKGTLLGALFAGLGALLLGKRRKNRKNKN 930

Title: US- 10- 615- 383A- 10_COPY_51_598
 Perfect score: 2808
 Sequence: 1 ENTVDVKDSNMDELSDSN. TI AFSTSSGCGGDLPEKT 548

RESULT 4

ABP40469

ID ABP40469 standard; protein; 930 AA.

XX

AC ABP40469;

XX

DT 24- JUL- 2002 (first entry)

XX

DE Staphylococcus epidermidis ORF amino acid sequence SEQ ID NO: 5314.

XX

KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;
 KW antibacterial; gene therapy.

XX

OS Staphylococcus epidermidis.

XX

PN US6380370- B1.

XX

PD 30- APR- 2002.

XX

PF 13- AUG- 1998; 98US- 00134001.

XX

PR 14- AUG- 1997; 97US- 0055779P.

PR

08- NOV- 1997; 97US- 0064964P.

XX

PA (GENO-) GENOME THERAPEUTICS CORP.

XX

PI Doucette- Stamm LA, Bush D;

XX

DR WPI; 2002- 381255/ 41.

DR

N- PSDB; ABN93014.

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PT Novel isolated nucleic acid encoding a Staphylococcus epidermis
 PT polypeptide, useful for diagnosing and treating bacterial infections.

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PS Disclosure; SEQ ID NO 5314; 267pp; English.

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CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading
 CC frame (ORF) nucleic acid sequences which encode the amino acid sequences
 CC given in ABP35124 to ABP37960. The S. epidermidis sequences have
 CC antibacterial activity and can be used in gene therapy. The sequences can
 CC also be used in the diagnosis and treatment of bacterial infections,
 CC particularly S. epidermidis infections. The sequences can be used to
 CC screen for compounds able to interfere with the S. epidermidis life cycle
 CC or inhibit S. epidermidis infection. N.B. The sequence data for this
 CC patent did not form part of the printed specification, but was obtained
 CC in electronic format directly from the USPTO web site

XX

Untitled

SQ Sequence 930 AA;

Query Match 100.0% Score 2808; DB 1; Length 930;
 Best Local Similarity 100.0%
 Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	ENTVQDVKDSNMDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSND AI ENR	60
Db	51	ENTVQDVKDSNMDELSDSNDQSSNEEKNDVI NNSQSI NTDDDNQI KKEETNSND AI ENR	110
Qy	61	SKDI TQSTTNVDENEATFLQKTPQDNTQLKEEVVKEPSSVESSNSSMDTAQQPSHTTI NS	120
Db	111	SKDI TQSTTNVDENEATFLQKTPQDNTQLKEEVVKEPSSVESSNSSMDTAQQPSHTTI NS	170
Qy	121	EASI QTSDNEENS RVSD FANSKI ESNTESNKEENTI EQPNKVREDSI TSQPSSYKNI DE	180
Db	171	EASI QTSDNEENS RVSD FANSKI ESNTESNKEENTI EQPNKVREDSI TSQPSSYKNI DE	230
Qy	181	KI SNQDELLNLPI NEYENKVRPLSTTSAQPSSKRVTVNQLAAEQGSNVNHLI KVT DQSI T	240
Db	231	KI SNQDELLNLPI NEYENKVRPLSTTSAQPSSKRVTVNQLAAEQGSNVNHLI KVT DQSI T	290
Qy	241	EGYDDSDGI KAHDAENLI YDVTFEVDDKVKSGDTMTVNI DKNTVPSDLTDSFAI PKI KD	300
Db	291	EGYDDSDGI KAHDAENLI YDVTFEVDDKVKSGDTMTVNI DKNTVPSDLTDSFAI PKI KD	350
Qy	301	NSGEI ATGTYDNTNKQI TYTFTDYVDKYENI KAHLKLTSYI DSKVPNNNTKLDVEYKT	360
Db	351	NSGEI ATGTYDNTNKQI TYTFTDYVDKYENI KAHLKLTSYI DSKVPNNNTKLDVEYKT	410
Qy	361	ALSSVNKTI TVEYQKPNENRTANLQSMFTNI DTKNHTVEQTI YI NPLRYSAKETNVNI SG	420
Db	411	ALSSVNKTI TVEYQKPNENRTANLQSMFTNI DTKNHTVEQTI YI NPLRYSAKETNVNI SG	470
Qy	421	NGDEGSTI DDSTI KVKYKVDNQNL PDSNRI YDYSEYEDVTNDDYAQLGNNDVNI NFG	480
Db	471	NGDEGSTI DDSTI KVKYKVDNQNL PDSNRI YDYSEYEDVTNDDYAQLGNNDVNI NFG	530
Qy	481	NI DSPYI KVI SKYDPNKDDYTTI QQTVTMQTTI NEYTGEFRTASYDNTI AFSTSSGQQQ	540
Db	531	NI DSPYI KVI SKYDPNKDDYTTI QQTVTMQTTI NEYTGEFRTASYDNTI AFSTSSGQQQ	590
Qy	541	GDLPPEKT	548
Db	591	GDLPPEKT	598